

## ABSTRACT OF THE DISCLOSURE

A semiconductor device includes a boosting circuit for supplying a power supply voltage during a 5 standby state of the semiconductor device. The boosting circuit includes a charge pump circuit and first and second detection circuits for detecting an output voltage of the charge pump circuit. The second detection circuit is operated by a DC current greater than that of the first 10 detection circuit, and is activated by an output ( $V_{det1}$ ) from the first detection circuit. The charge pump circuit is activated based on at least an output ( $V_{det2}$ ) from the second detection circuit.